# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460



#### **MEMORANDUM**

8/30/2021

SUBJECT: Product Chemistry Review for Copper Armor, EPA Reg. No.: 56601-U

Case #: 00216529

FROM: Bruce Averill Bure a. averill

Chemistry and Toxicology Team

RMB3

Antimicrobials Division (7510P)

**THRU:** Karen P. Hicks, Team Leader

**Chemistry and Toxicology Team** 

RMB3

Antimicrobials Division (7510P)

**TO:** Eric Miederhoff, PM Team 31 / Tara Flint

Regulatory Management Branch I Antimicrobials Division (7510P)

Registrant: PPG Industries

Action code: A540 Agency Due Date:

7/2/2021

Case No.: 00216529

DP No.: N/A

Submission No.: 1063708

E-Sub No.: N/A Classification: EP

Process: Nonintegrated

system

Pesticide type: Antimicrobial

MRID(s): 51433502, 51433503

Formulation from label				
PC code(s) CAS #(s) Active Ingredient(s) % weight				
042401	1317-38-0	Cupric oxide	0.30	
		Other Ingredients	99.70	
		Total	100%	

#### I. BACKGROUND

On behalf of the Registrant, PPG Industries, Keller and Heckman LLP has submitted a revised application for pesticide registration for their product: Copper Armor, EPA Reg. No. 56601-U.

# **II. RELEVANT DOCUMENTS**

	RECEIVED	N/A
EPA FORM 8570-27 – Formulator's Exemption Statement	$\boxtimes$	
EPA FORM 8570-35 – Data Matrix (5/28/2021)	$\boxtimes$	
Cover letter (6/25/2021)	$\boxtimes$	
Transmittal document		$\boxtimes$
Proposed CSF BASIC, (6/16/2021)	$\boxtimes$	
Proposed CSF ALTERNATE, (6/16/2021)	$\boxtimes$	
Proposed label, (6/25/2021)	X	
Certification for Pilot Fragrance Notification Program		$\boxtimes$
REFERENCED: CSF	-	
Comments:		

# **III. FINDINGS**

# a. Product Formulation:

	TGAI	MUP	EUP	Food use	Non-food
					use
Non-integrated			$\boxtimes$		$\boxtimes$
Integrated					
		•			
Active Ingredients(s)			Nominal	Upper limit	Lower
					limit
Cupric oxide			0.30	0.33	0.27
			YES	NO	N/A
1. The certified limits of all ingredients are within 40			$\boxtimes$		
CFR standard certified limits.					
2. Wider certified limits were requested and rationale					Х
was accepted.					
3. The nominal concentration(s) of the active			$\boxtimes$		
ingredient is in agreement with the label.					
4. The chemical IDs and analytical information for			$\boxtimes$		
density, pH, and flammability are consistent with					
Series 830 Group B data.	• • • • •				

5. All inert ingredients are approved for non-food use	$\boxtimes$	
pesticide formulations.		
6. The impurities present >0.1% are identified.		$\boxtimes$
7. Impurities of toxicological significance have an		$\boxtimes$
upper certified limit.		

#### b. Product Label:

	Yes	NO	N/A
The formula contains one of the following:			
1. 10% or more of petroleum distillate		$\boxtimes$	
2. 1.0% or more of methyl alcohol		$\boxtimes$	
3. Sodium nitrite at any level		$\boxtimes$	
4. A toxic list 1 inert at any level		$\boxtimes$	
5. Arsenic in any form		$\boxtimes$	
6. If yes to 1-5, then the inert ingredient list contains a relevant			$\boxtimes$
footnote			
7. Appropriate warning statements regarding flammability or	$\boxtimes$		
explosive characteristics of the product are included on the			
label			
8. The storage and disposal instructions for the pesticide	$\boxtimes$		
container are in compliance with PR Notice 84-1 for household			
use products or PR Notice 83-3 for all other uses.			
9. The product requires an expiration date at which time the			$\boxtimes$
nominal concentration falls below the lower certified limit.			

## **IV. Additional Findings**

The CSFs for the basic and alternate formulations (dated 6/16/2021) are acceptable. The certified limits for all ingredients agree with 40 CFR §158.350. All ingredients have been cleared for use in pesticide formulations. Percentages on label match composition of product.

### V. Conclusion

The registrant has satisfied the CSF requirements for registration of a new basic and alternate formulation of EPA Reg. No. **56601-U.** EPA approves said CSFs.

VI. Table A: Series 830 guidelines – Group A

OPPTS#	Name	Status	MRID
830.1550	Product Identity & Composition	Acceptable	51433502
830.1600	Description of materials	Acceptable	51433502
830.1620	Description of production process	Waived	N/A
830.1650	Description of formulation process	Acceptable	51433502
830.1670	Discussion of formation of impurities	Acceptable	51433502
830.1700	Preliminary analysis	Acceptable	51433502
830.1750	Certified limits	Acceptable	51433502
830.1800	Enforcement analytical method	Acceptable	51433502
830.1900	Submittal of samples	Acceptable	51433502

# VII. Table B: Series 830 guidelines – Group B

OPPTS#	Name	Study Findings/Comment	Status	MRID
830.6302	Color	Not required for end use product	Not applicable	N/A
830.6303	Physical state	liquid	Acceptable	51433503
830.6304	Odor	Not required for end use product	Not applicable	N/A
830.6313	Stability to normal & elevated temperatures, metals & metal ions	The product is not TGAI	Not applicable	N/A
830.6314	Oxidation/Reduction	No oxidizer/reducer present	Not applicable	N/A
830.6315	Flammability	Product is not potentially flammable	Not applicable	N/A
830.6316	Explodability	Product does not contain explosive ingredients	Not applicable	N/A
830.6317	Storage stability	3 years	Acceptable	51433503
830.6319	Miscibility	Product not mixed with organic solvents	Not applicable	N/A
830.6320	Corrosion characteristics	Will rust unlined metal containers	Acceptable	51433503
830.6321	Dielectric breakdown voltage	Product not used near electrical equipment	Not applicable	N/A
830.7000	pH	7.9	Acceptable	51433503
830.7050	UV/Visible absorption	The product is not TGAI	Not applicable	N/A
830.7100	Viscosity	2300 mPa	Acceptable	51433503
830.7200	Melting point	Not required for MUP or EP	Not applicable	N/A
830.7220	Boiling point	Not required for MUP or EP	Not applicable	N/A
830.7300	Density/relative	1.2805 g/cm3 (semi-gloss) 1.2953 g/cm3 (eggshell	Acceptable	N/A
830.7370	Dissociation constants in water	Not required for MUP or EP	Not applicable	N/A
830.7520	Particle size	Not required for MUP or EP	Not applicable	N/A
830.7550/ 7560/ 7570	Partition coefficient	Not required for MUP or EP	Not applicable	N/A
830.7840/ 7860	Water solubility	Not required for MUP or EP	Not applicable	N/A

830.7950	Vapor pressure	Not required for MUP or EP	Not applicable	N/A